Appl. No. *To be assigned*; Group Art Unit: *To be assigned*;
(Divisiona[redacted]ppl. No. 09/042, 583; Filed: March 17, 1998)
Dkt. No. 1458.131000A/EKS/EJH;
Inventors: NI *et al* ; Tel: 202/371-2600
Title: Death Domain Containing Receptor 5

J1050 U.S. PTO
10/005842
12/07/01

10/005842 - 120701

```
          10                  30                  50
CACGCGTCCGCGGGCGCGGCCGGAGAACCCCGCAATCTTTGCGCCCACAAAATACACCGA
          70                  90                 110
CGATGCCCGATCTACTTTAAGGGCTGAAACCCACGGGCCTGAGAGACTATAAGAGCGTTC
         130                 150                 170
CCTACCGCCATGGAACAACGGGGACAGAACGCCCCGGCCGCTTCGGGGGCCCGGAAAAGG
           M   E   Q   R   G   Q   N   A   P   A   A   S   G   A   R   K   R
         190                 210                 230
CACGGCCCAGGACCCAGGGAGGCGCGGGGAGCCAGGCCTGGGCCCCGGGTCCCCAAGACC
H   G   P   G   P   R   E   A   R   G   A   R   P   G   P   R   V   P   K   T
         250                 270                 290
CTTGTGCTCGTTGTCGCCGCGGTCCTGCTGTTGGTCTCAGCTGAGTCTGCTCTGATCACC
L   V   L   V   V   A   A   V   L   L   L   V   S   A   E   S   A   L   I   T
         310                 330                 350
CAACAAGACCTAGCTCCCCAGCAGAGAGCGGCCCCACAACAAAAGAGGTCCAGCCCCTCA
Q   Q   D   L   A   P   Q   Q   R   A   A   P   Q   Q   K   R   S   S   P   S
         370                 390                 410
GAGGGATTGTGTCCACCTGGACACCATATCTCAGAAGACGGTAGAGATTGCATCTCCTGC
E   G   L   C   P   P   G   H   H   I   S   E   D   G   R   D   C   I   S   C
         430                 450                 470
AAATATGGACAGGACTATAGCACTCACTGGAATGACCTCCTTTTCTGCTTGCGCTGCACC
K   Y   G   Q   D   Y   S   T   H   W   N.  D   L   L   F   C   L   R   C   T
         490                 510                 530
AGGTGTGATTCAGGTGAAGTGGAGCTAAGTCCCTGCACCACGACCAGAAACACAGTGTGT
R   C   D   S   G   E   V   E   L   S   P   C   T   T   T   R   N   T   V   C
         550                 570                 590
CAGTGCGAAGAAGGCACCTTCCGGGAAGAAGATTCTCCTGAGATGTGCCGGAAGTGCCGC
Q   C   E   E   G   T   F   R   E   E   D   S   P   E   M   C   R   K   C   R
         610                 630                 650
ACAGGGTGTCCCAGAGGGATGGTCAAGGTCGGTGATTGTACACCCTGGAGTGACATCGAA
T   G   C   P   R   G   M   V   K   V   G   D   C   T   P   W   S   D   I   E
         670                 690                 710
TGTGTCCACAAAGAATCAGGCATCATCATAGGAGTCACAGTTGCAGCCGTAGTCTTGATT
C   V   H   K   E   S   G   I   I   I   G   V   T   V   A   A   V   V   L   I
         730                 750                 770
GTGGCTGTGTTTGTTTGCAAGTCTTTACTGTGGAAGAAAGTCCTTCCTTACCTGAAAGGC
V   A   V   F   V   C   K   S   L   L   W   K   K   V   L   P   Y   L   K   G
         790                 810                 830
ATCTGCTCAGGTGGTGGTGGGGACCCTGAGCGTGTGGACAGAAGCTCACAACGACCTGGG
I   C   S   G   G   G   G   D   P   E   R   V   D   R   S   S   Q   R   P   G
```

FIG.1A

Appl. No. *To be assigned*; Group Art Unit: *To be assigned*;
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Dkt. No. 1488.131000A/EKS/EJH;
Inventors: NI *et al* ; Tel: 202/371-2600
Title. Death Domain Containing Receptor 5


```
       850                 870                 890
GCTGAGGACAATGTCCTCAATGAGATCGTGAGTATCTTGCAGCCCACCCAGGTCCCTGAG
A  E  D  N  V  L  N  E  I  V  S  I  L  Q  P  T  Q  V  P  E
       910                 930                 950
CAGGAAATGGAAGTCCAGGAGCCAGCAGAGCCAACAGGTGTCAACATGTTGTCCCCCGGG
Q  E  M  E  V  Q  E  P  A  E  P  T  G  V  N  M  L  S  P  G
       970                 990                1010
GAGTCAGAGCATCTGCTGGAACCGGCAGAAGCTGAAAGGTCTCAGAGGAGGAGGCTGCTG
E  S  E  H  L  L  E  P  A  E  A  E  R  S  Q  R  R  R  L  L
      1030                1050                1070
GTTCCAGCAAATGAAGGTGATCCCACTGAGACTCTGAGACAGTGCTTCGATGACTTTGCA
V  P  A  N  E  G  D  P  T  E  T  L  R  Q  C  F  D  D  F  A
      1090                1110                1130
GACTTGGTGCCCTTTGACTCCTGGGAGCCGCTCATGAGGAAGTTGGGCCTCATGGACAAT
D  L  V  P  F  D  S  W  E  P  L  M  R  K  L  G  L  M  D  N
      1150                1170                1190
GAGATAAAGGTGGCTAAAGCTGAGGCAGCGGGCCACAGGGACACCTTGTACACGATGCTG
E  I  K  V  A  K  A  E  A  A  G  H  R  D  T  L  Y  T  M  L
      1210                1230                1250
ATAAAGTGGGTCAACAAAACCGGGCGAGATGCCTCTGTCCACACCCTGCTGGATGCCTTG
I  K  W  V  N  K  T  G  R  D  A  S  V  H  T  L  L  D  A  L
      1270                1290                1310
GAGACGCTGGGAGAGAGACTTGCCAAGCAGAAGATTGAGGACCACTTGTTGAGCTCTGGA
E  T  L  G  E  R  L  A  K  Q  K  I  E  D  H  L  L  S  S  G
      1330                1350                1370
AAGTTCATGTATCTAGAAGGTAATGCAGACTCTGCCATGTCCTAAGTGTGATTCTCTTCA
K  F  M  Y  L  E  G  N  A  D  S  A  M  S  *
      1390                1410                1430
GGAAGTGAGACCTTCCCTGGTTTACCTTTTTTCTGGAAAAAGCCCAACTGGACTCCAGTC
      1450                1470                1490
AGTAGGAAAGTGCCACAATTGTCACATGACCGGTACTGGAAGAAACTCTCCCATCCAACA
      1510                1530                1550
TCACCCAGTGGATGGAACATCCTGTAACTTTTCACTGCACTTGGCATTATTTTTATAAGC
      1570                1590
TGAATGTGATAATAAGGACACTATGGAAAAAAAAAAAAA
```

FIG. 1B

Appl. No. *To be assigned*; Group Art Unit: *To be assigned*;
Divisional of Appl. No. 09/042,583; Filed: March 17, 1998)
Dkt. No. 1488.131000A/EKS/EJH;
Inventors: NI *et al*; Tel: 202/371-2600
Title: Death Domain Containing Receptor 5


```
1   M - L G - - - - - - - - - - - - - - - - - - - - - - - - - - - I W T L L P L V L  h Fas protein
1   M G L S - - - - - - - - - - - - - - - - - - - - - - - - - - - T V P D L L L P L  h TNFR I Protei
1   M E Q R - - - - - - - - - - - - - - - - - - - - - - - - - - - P R G C A A V A A  DR3 protein
1   M E Q R G Q N A P A A S G A R K R H G P G P R E A R G A R P G P R V P K T L V L  HLYBX88XXprotei

13  T S V A R L S S K S V N A Q V T D I N S K G L E L R K T V T T V E T Q N L E G L  h Fas protein
14  V L L E L L V G I Y P S G V I G L V P H L G D R E K R D S V C P Q G K Y I H - -  h TNFR I Protei
14  A L L L V L L G A R A Q G - - - - - - - - - G T R S P R - C D C A - G D F - H - -  DR3 protein
41  V V A A V L L L V S A E S A L I T Q Q D L A P Q Q R A A P Q Q K R S S P S E G L  HLYBX88XXprotei

53  H H D G Q F C H K P C P P G E R K A R D C T V N G D E P D C V P C Q E G K E Y T  h Fas protein
52  P Q N N S I C C T K C H K G T Y L Y N D C P G P G Q D T D C R E C E S G S F T A  h TNFR I Protei
41  K K I G L F C C R G C P A G H Y L K A P C T E P C G N S T C L V C P Q D T F L A  DR3 protein
81  - - - - - - - - - - C P P G H H I S E D - - - - - - G R D C I S C K Y G Q D Y S  HLYBX88XXprotei

93  D K A H F S S K C R R C R L C D E G H G L E V E I N C T R T Q N T K C R C K P N  h Fas protein
92  S E N H L R - H C L S C S K C R K E M G Q V E I S S C T V D R D T V C G C R K N  h TNFR I Protei
81  W E N H H N S E C A R C Q A C D E Q A S Q V A L E N C S A V A D T R C G C K P G  DR3 protein
105 T H W N D L L F C L R C T R C D - - S G E V E L S P C T T T R N T V C Q C E E G  HLYBX88XXprotei

133 F F - - - - - - - - - - C N S T V - - - C E H C D P C T K - - - - - - - - - - -  h Fas protein
131 Q Y R H Y W S E N L F Q C - - - - - F N C S L C L N - G T V H - - - - L S C Q E  h TNFR I Protei
121 W F V E C - - - Q V S Q C V S S S P F Y C Q P C L D C G A L H R H T R L L C S R  DR3 protein
143 T F R E - - - - - - - - - - E D S P E M C R K C - - - - - - - - - - R T G C P R  HLYBX88XXprotei
```

FIG.2A

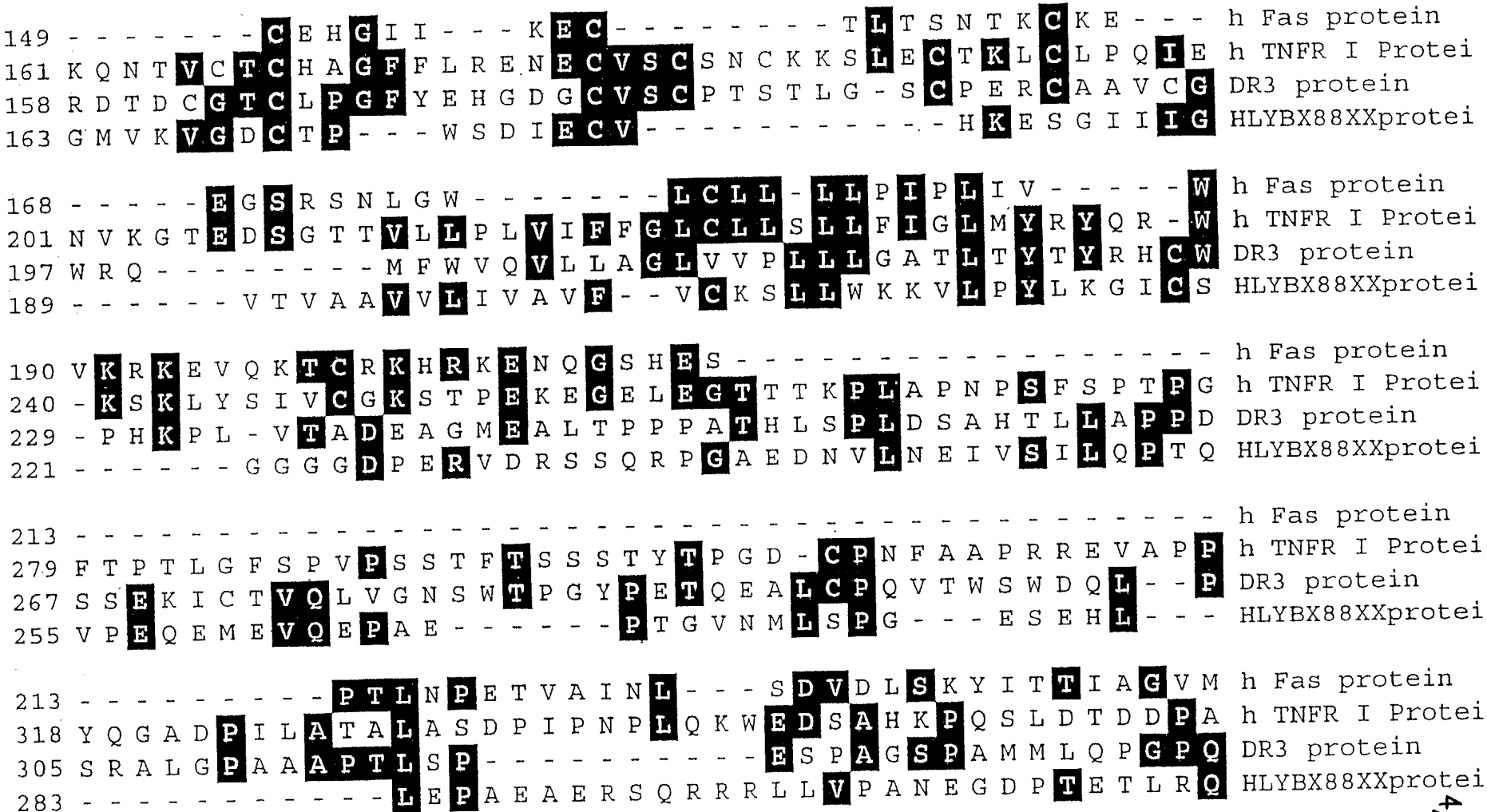

FIG.2B

Sheet 4 of 12
Appl. No. *To be assigned*; Group Art Unit: *To be assigned*;
(Divisional of Appl. No. 09/042,583; Filed March 17, 1998)
Dkt. No. 1488.131000A/EKS/EJH;
Inventors: NI *et al.*; Tel: 202/371-2600
Title: Death Domain Containing Receptor 5

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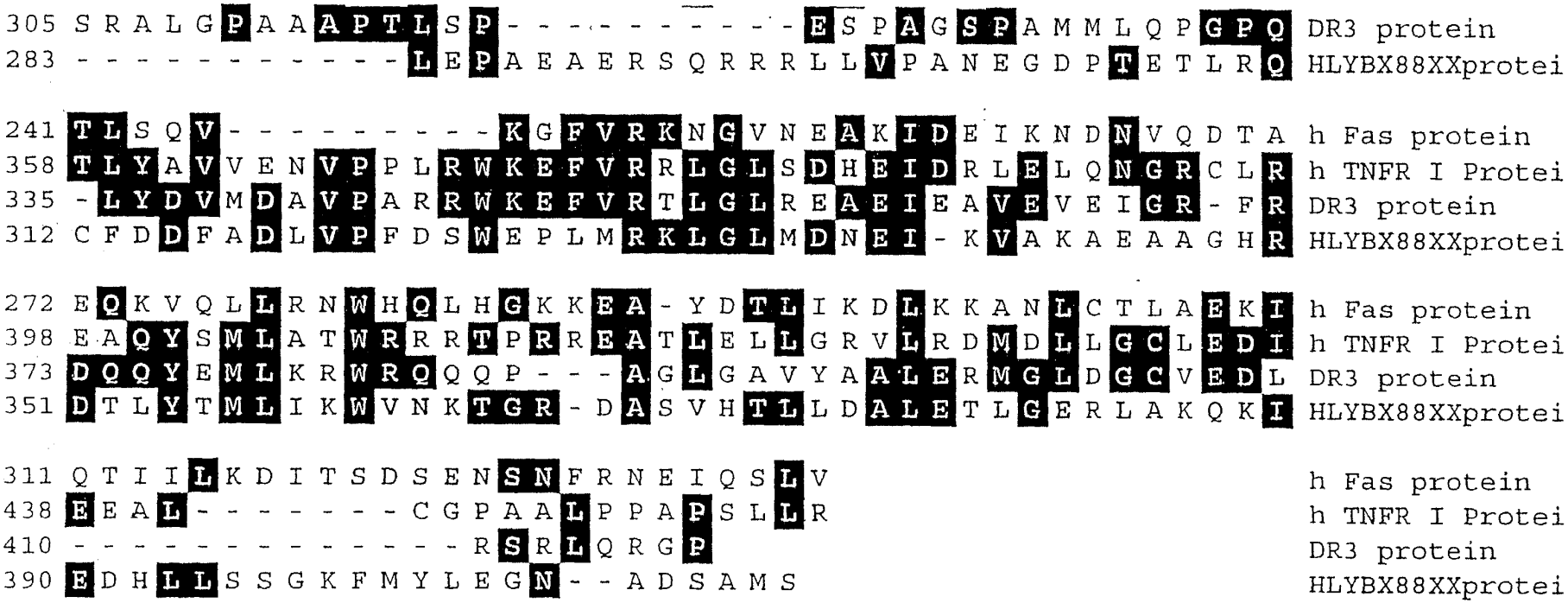

Decoration 'Decoration #1': Shade (with solid black) residues that match the Consensus exact

FIG.2C

Appl. No. *To be assigned*; Group Art Unit: *To be assigned*;
Divisional of Appl. No. 09/042,583; Filed: March 17, 1998)
Dkt. No. 1488.131000A/EKS/EJH;
Inventors: NI *et al.*; Tel: 202/371-2600
Title: Death Domain Containing Receptor 5

TO2027 24850001

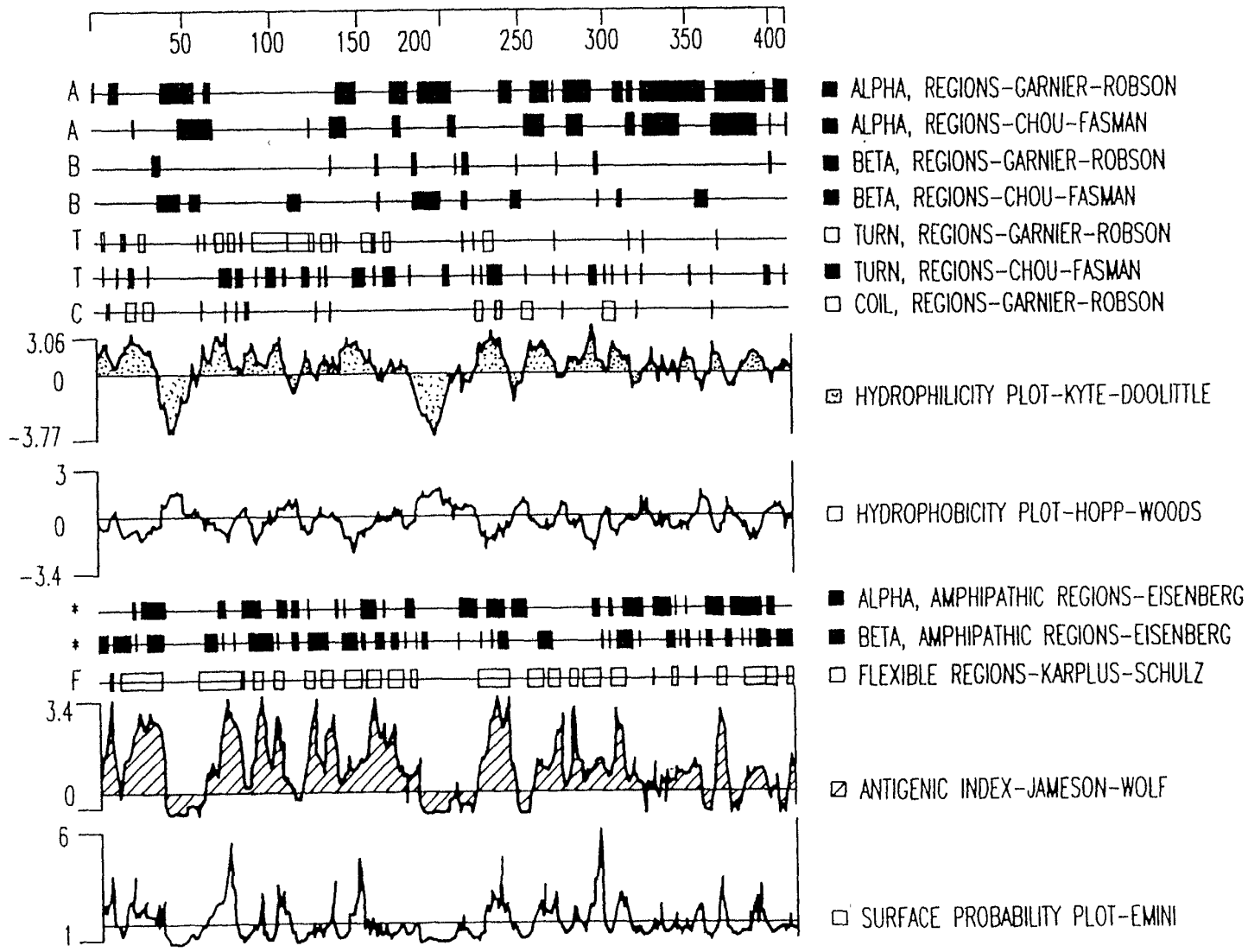

FIG.3

Sheet 6 of 12
Appl. No. *To be assigned*; Group Art Unit: *To be assigned*
(Divisional of Appl. No. 09/042,583; Filed: March 17, 1998)
Dkt. No. 1488.131000/A/EKS/EJH;
Inventors: NI *et al.*; Tel: 202/371-2600
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Appl. No. *To be assigned*; Group Art Unit: *To be assigned*;
(Divisional of Appl. No. 09/042,583; Filed: March 17, 1998)
Dkt. No. 1488.131000A/EKS/EJH;
Inventors: NI *et al.*; Tel: 202/371-2600
Title: Death Domain Containing Receptor 5

HAPBU13R

```
  1 AATTCGGCAC AGCTCTTCAG GAAGTCAGAC CTTCCCTGGT TTACCTTTTT
 51 TCTGGAAAAA GCCCAACTGG GACTCCAGTC AGTAGGAAAG TGCCACAATT
101 GTCACATGAC CGGTACTGGA AGAAACTCTC CCATCCAACA TCACCCAGTG
151 GNATGGGAAC ACTGATGAAC TTTTCACTGC ACTTGGCATT ATTTTTGTNA
201 AGCTGAATGT GATAATAAGG GCACTGATGG AAATGTCTGG ATCATTCCGG
251 TTGTGCGTAC TTTGAGATTT GNGTTTGGGG ATGTNCATTG TGTTTGACAG
301 CACTTTTTTN ATCCCTAATG TNAAATGCNT NATTTGATTG TGANTTGGGG
351 GTNAACATTG GTNAAGGNTN CCCNTNTGAC ACAGTAGNTG GTNCCCGACT
401 TANAATNGNN GAANANGATG NATNANGAAC CTTTTTTTGG GTGGGGGGGT
451 NNCGGGGCAG TNNAANGNNG NCTCCCCAGG TTTGGNGTNG CAATNGNGGA
501 ANNNTGG
```

HSBBU76R

```
  1 TTTTTTTTGT AGATGGATCT TACAATGTAG CCCAAATAAA TAAATAAAGC
 51 ATTTACATTA GGATAAAAAA GTGCTGTGAA AACAATGACA TCCCAAACCA
101 AATCTCAAAG TACGCACAAA CGGAATGATC CAGACATTTC CATAGNGTCC
151 TTATTATCAC ATTCAGCTTA TAAAANTAAT GCCAAGTGCA GTGAAAAGTT
201 ACAGGATGTT CCATCCACTG GGTGGATT
```

FIG.4

Appl. No. *To be assigned*; Group Art Unit: *To be assigned*
(Divisional of Appl. No. 09/042,583; Filed: March 17, 1998)
Dkt. No. 1488.131000A/EKS/EJH;
Inventors: NI *et al.*; Tel: 202/371-2600
Title: Death Domain Containing Receptor 5

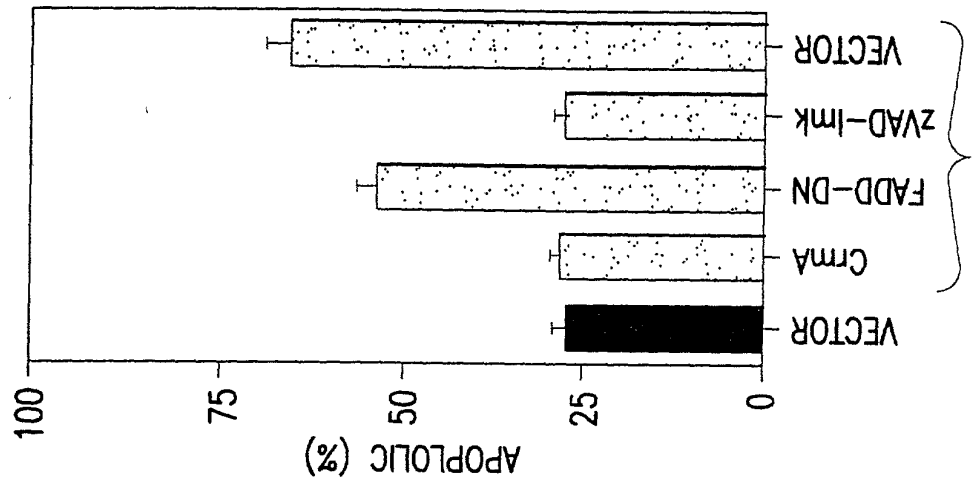


FIG. 5C

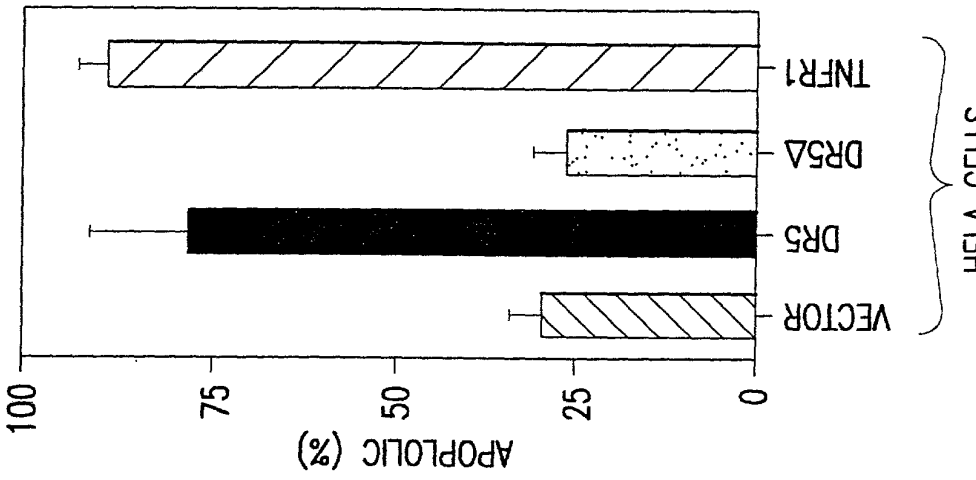


FIG. 5B

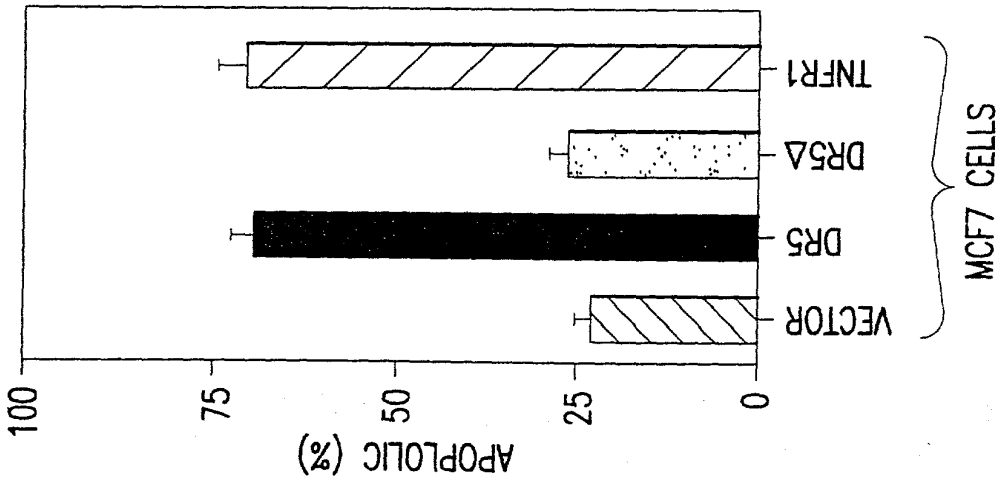


FIG. 5A

Appl. No. *To be assigned*; Group Art Unit: *To be assigned*;
Divisional of Appl. No. 09/042,583; Filed: March 17, 1998)
Dkt. No. 1488.131000A/EKS/EJH;
Inventors: NI *et al.*; Tel: 202/371-2600
Title: Death Domain Containing Receptor 5

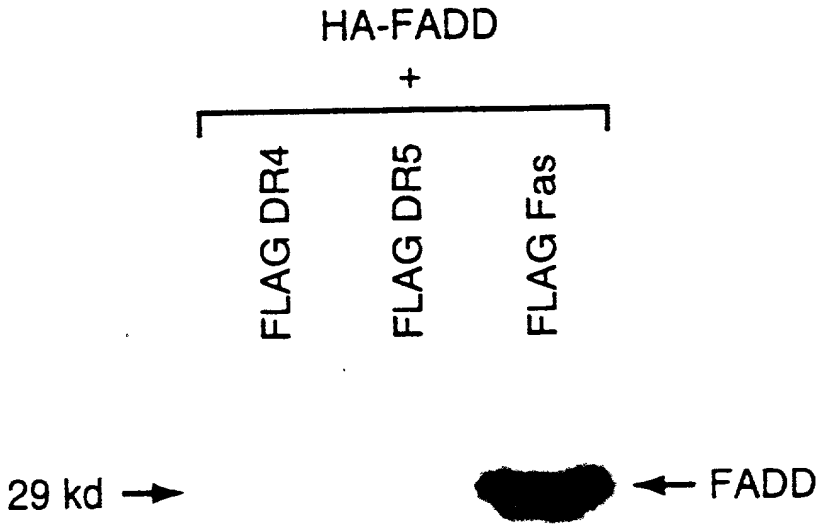
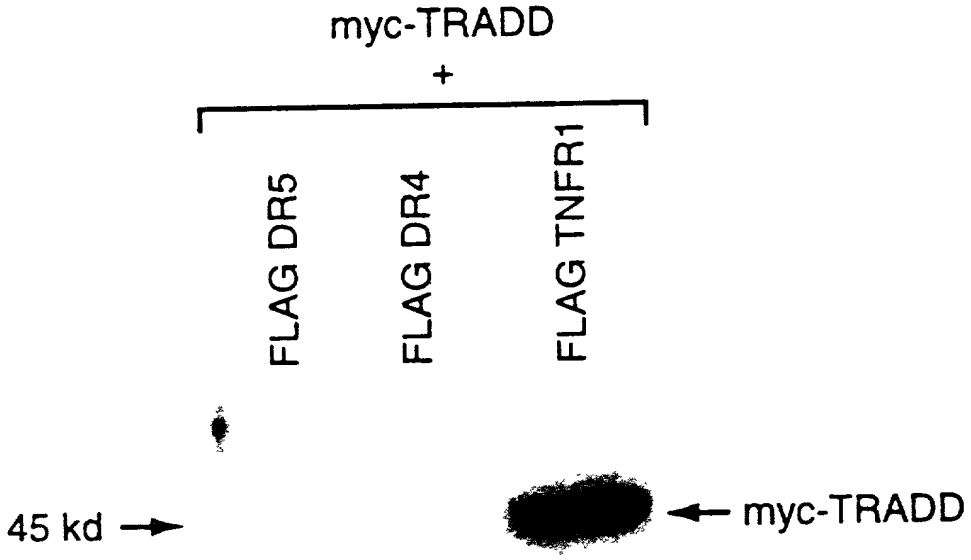


FIG.5D



Appl. No *To be assigned*; Group Art Unit: *To be assig*
(Divisional of Appl. No. 09/042, 583; Filed: March 17, 19
Dkt. No. 1488.131000A/EKS/EJH;
Inventors: NI *et al* ; Tel: 202/371-2600
Title: Death Domain Containing Receptor 5

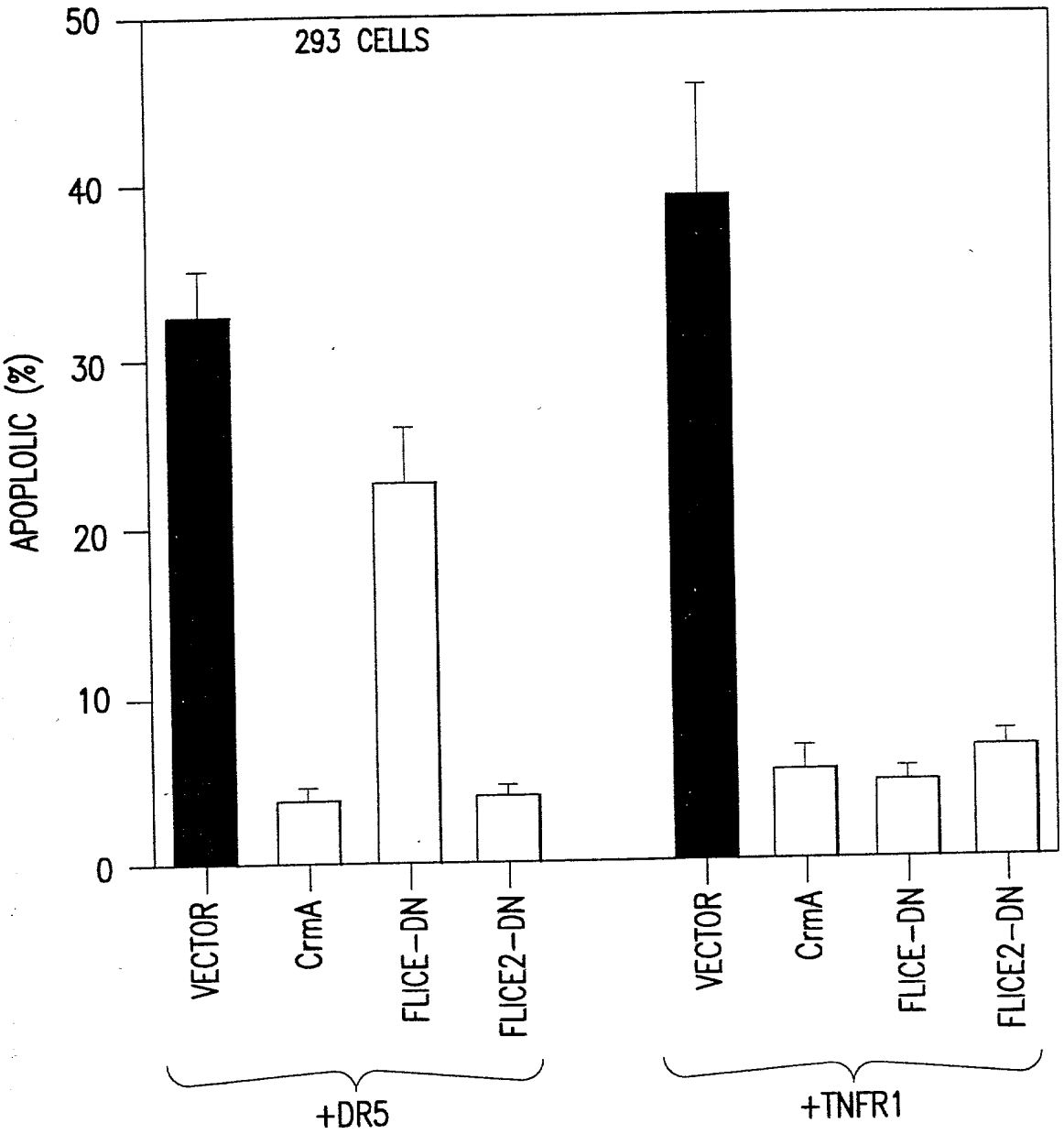


FIG. 5E

Appl. No. *To be assigned*; Group Art Unit: *To be assigned*;
(Divisional of Appl. No. 09/042, 583; Filed: March 17, 1998)
Dkt. No. 1488.131000A/EKS/EJH;
Inventors: NI *et al.*; Tel: 202/371-2600
Title: Death Domain Containing Receptor 5

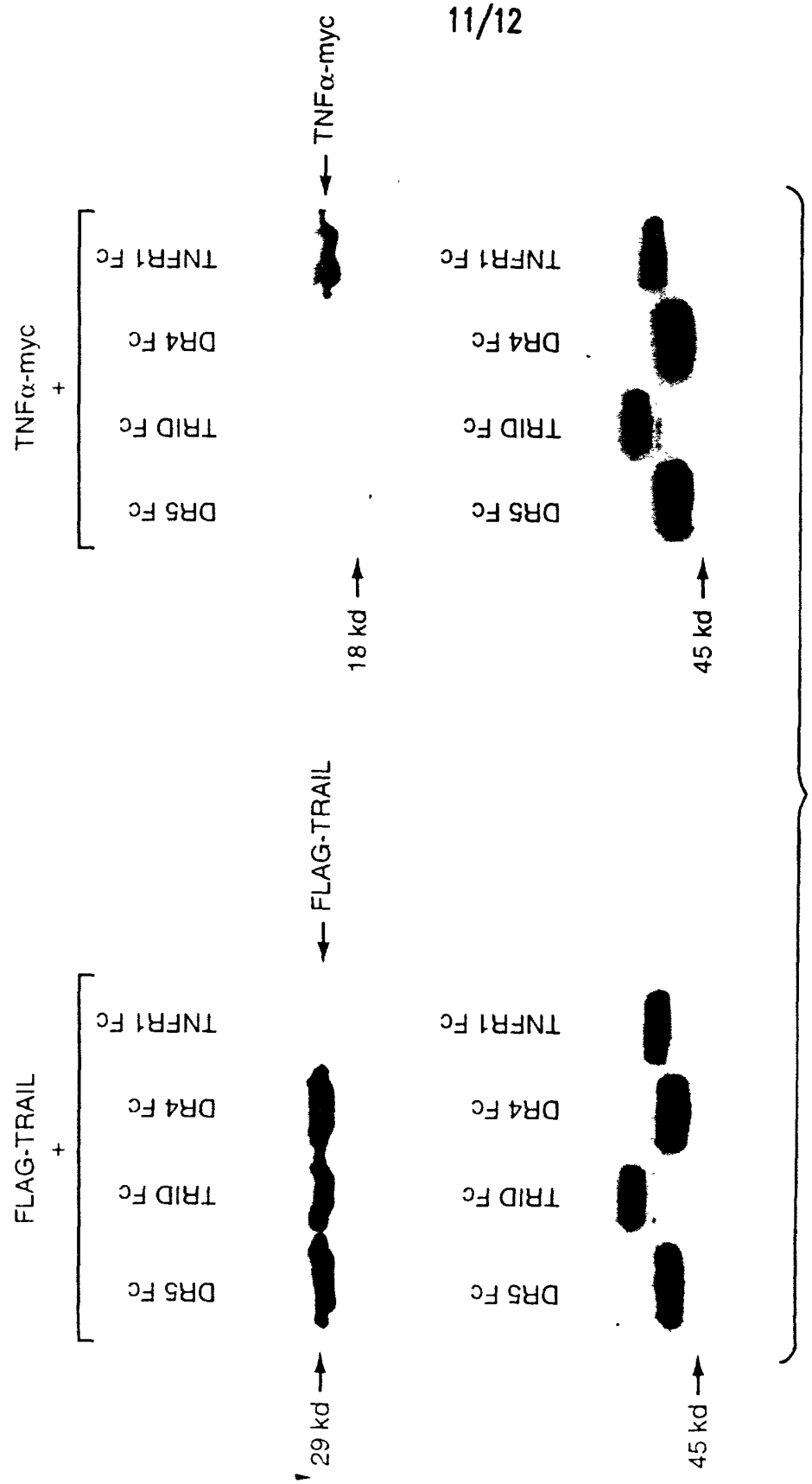


FIG.6A

Appl. No. *To be assigned*; Group Art Unit: *To be assigned*;
(Divisional of Appl. No. 09/042,583; Filed: March 17, 1998)
Dkt. No. 1488.131000A/EKS/EJH;
Inventors: NI *et al* ; Tel: 202/371-2600
Title: Death Domain Containing Receptor 5

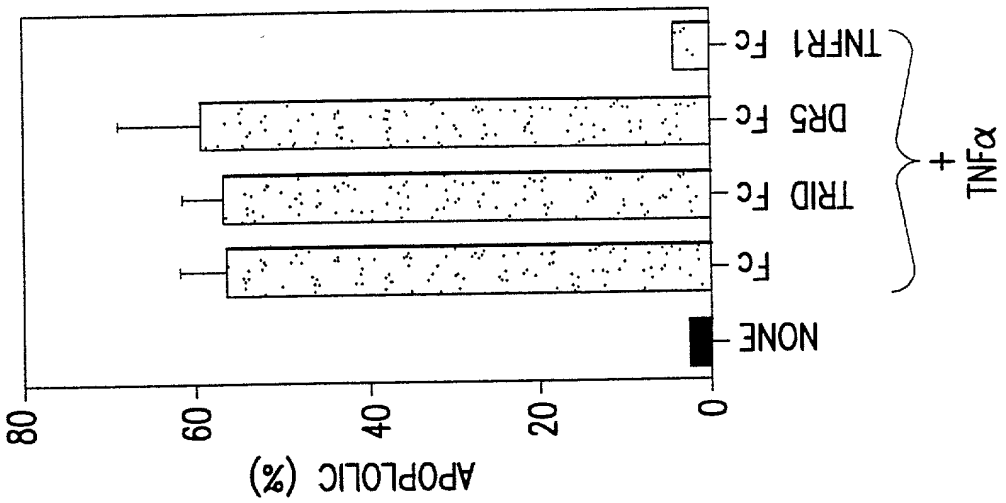


FIG. 6C

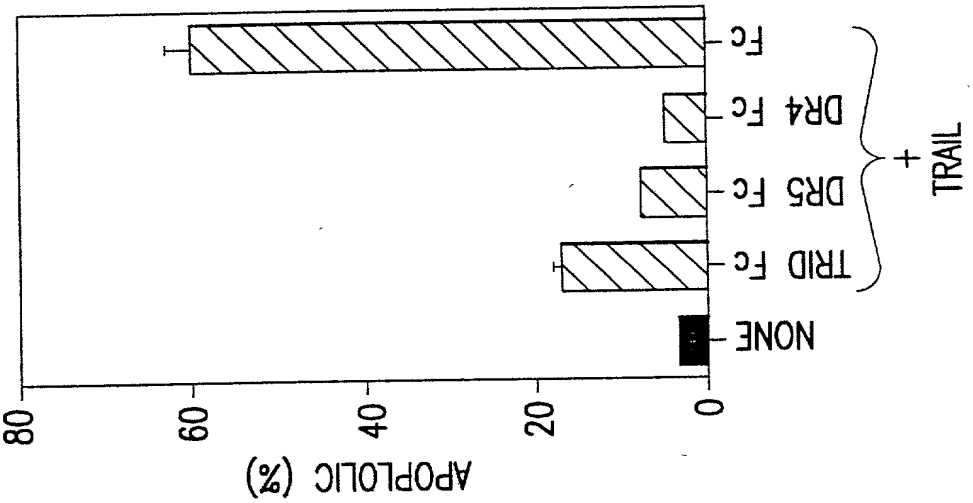


FIG. 6B

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